

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

2102-F-21-R-48

Name: Webb

County(ies): Lyman

Legal Description: T107N-R78W-Sec. 6

GPS: 44.0935°N 100.2340°W

Location from nearest town: 18 miles S and 5 miles E of Fort Pierre

Date of present survey: June 9-10, 2015 (netting)

Date of last survey: None known

Most recent lake management plan: None done

Management classification: Unknown

Primary Game Species	Secondary and Other Species
Bluegill	
Largemouth Bass	

PHYSICAL DATA

Webb Dam is located in Lyman County, South Dakota. The surrounding land and dam grade are owned and managed by the United States Department of Agriculture, Forest Service and is part of the Fort Pierre National Grasslands. Webb Dam is a 1.5 acre pond that had a maximum depth at the time of the survey in 2015 of about 10.5 feet. The dam was full at the time of the survey.

Emergent vegetation consisted of mainly cattails. Submergent vegetation consisted mainly of sago pondweed, although there may have been another species present. There is year round vehicle access but boat access is limited to a carry-in type boat. Good ice fishing opportunities do exist. No contour map or depth contour has ever been done.

CHEMICAL DATA

No pollution problems were evident at the time of the survey. Water clarity was good with a secchi disc reading of about 2 feet. A temperature and dissolved oxygen profile was the only other water quality measurements done this survey and the results are found in Table 1.

Table 1. Water chemistry results from Webb Dam, Lyman County, June 10, 2015.

Station	Depth (ft)	Temp (F)	DO (ppm)
A	0	74.1	9.7
A	2	73.9	9.3
A	4	71.6	7.4
A	5	68.7	1.5
A	6	68.4	0.8
A	8	63.1	0.4
A	10	59.5	0.4

BIOLOGICAL DATA

Methods:

Webb Dam was sampled on June 9-10, 2015, with three overnight trap net sets. The trap nets have 3ft x 5ft frames, 60ft leads, and ¾ inch knotted mesh. No experimental gill nets were set or electrofishing was done this survey season. Fish indices and statistics were completed using Winfin.

Results and Discussion:

Trap Net Catch

Table 2. Total catch of 3 overnight ¾-inch frame nets at Webb Dam, Lyman County, June 9-10, 2015.

Species	#	%	CPUE	80% C.I.	Mean CPUE*	PSD	RSD-P	Mean Wr
Bluegill	7	100	2.3	± 1.7	--	86	14	113

* First recorded survey

Fish Population

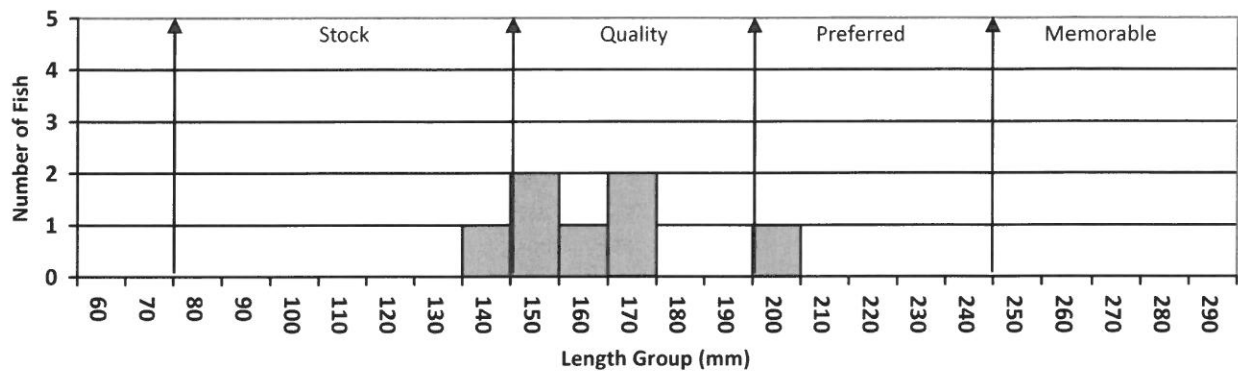
Bluegills were the only species sampled in three trap net sets. The CPUE was 2.3 fish per net. Condition is good with a mean Wr of 113. Growth appears to be on the slow side with means below statewide, regional and SLI means (Table 3). Figure 1 illustrates the length frequency histogram for the fish sampled this survey. Not a lot can be said about this population other than the few measurements taken, but with a small sample size it is hard to say too much.

Table 3. Average back-calculated lengths (mm) for each age class of bluegill sampled from Webb Dam, Lyman County, 2015.

		Back-calculated Age					
Year Class	Age	N	1	2	3	4	5
2011	4	5	37	59	104	147	
2010	5	2	39	66	100	152	181
All Classes		7	38	62	102	150	181
Statewide Mean			55	103	141	166	180
Region II Mean			52	97	134	164	180
SLI* Mean			53	101	138	163	180

* Small Lakes and Impoundments

Figure 1. Length frequency histogram for bluegill sampled from Webb Dam, Lyman County, 2015.



RECOMMENDATIONS

1. Resurvey, when time allows, to further monitor the fish populations and to continually collect trend data on the pond.
2. Attempt to electrofish to see what type of largemouth bass population exists, if any.
3. Make any stockings or transfers out if needed to help the fish population.